

PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : C11D 3/386, 3/20, 3/39	A1	(11) International Publication Number: WO 99/02640 (43) International Publication Date: 21 January 1999 (21.01.99)
(21) International Application Number: PCT/US97/12445		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).
(22) International Filing Date: 9 July 1997 (09.07.97)		Published <i>With international search report.</i>
(71) Applicant (<i>for all designated States except US</i>): THE PROCTER & GAMBLE COMPANY [US/US]; One Procter & Gamble Plaza, Cincinnati, OH 45202 (US).		
(72) Inventors; and		
(75) Inventors/Applicants (<i>for US only</i>): HERBOTS, Ivan, Maurice, Alfon, Jan [BE/BE]; Hollegat 11, B-9230 Wetteren (BE), BUSCH, Alfred [DE/BE]; Handelsstraat 210, B-1840 Londerzeel (BE).		
(74) Agents: REED, T., David et al.; The Procter & Gamble Company, 5299 Spring Grove Avenue, Cincinnati, OH 45217 (US).		

(54) Title: CLEANING COMPOSITIONS COMPRISING AN OXIDOREDUCTASE

(57) Abstract

The present invention relates to cleaning compositions, including laundry, dishwashing, hard surface cleaner, oral/dental cleaning compositions, comprising an oxidoreductase with an α/β -hydrolase fold and a catalytic triad consisting of the amino acid residues serine, histidine and aspartic acid, which provide effective and efficient cleaning of coloured and/or everyday body stains and/or soils and the sanitisation of the treated surface.